

REPORT
OF THE
DEPARTMENT OF HEALTH
OF THE
PANAMA CANAL
FOR THE
MONTH OF APRIL, 1914

CHAS. F. MASON

Lieut. Colonel, Medical Corps, United States Army
Chief Health Officer, Ancon, Canal Zone

Gift of the Panama Canal Museum

WASHINGTON
1914

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LETTER OF TRANSMITTAL.

PANAMA CANAL, DEPARTMENT OF HEALTH,
Ancon, Canal Zone, May 9, 1914.

GOVERNOR OF THE PANAMA CANAL,
Culebra, Canal Zone.

SIR: I have the honor to submit the following report of the department of health for the month of April, 1914.

The total number of deaths from all causes among employees was 27, divided as follows: Disease 22 and violence 5, giving the annual average per thousand of 5.52 and 1.26, respectively.

Among employees for the month of April of each year the annual average death rate per thousand was as follows:

	Total.	Disease.		Total.	Disease.
1905.....	10.95	.....	1910.....	13.04	8.62
1906.....	30.00	29.12	1911.....	9.38	6.42
1907.....	38.67	35.22	1912.....	11.38	8.77
1908.....	7.77	4.56	1913.....	10.29	4.84
1909.....	8.57	7.01	1914.....	6.78	5.52

The annual average death rate per thousand in the cities of Panama and Colon and the Canal Zone, including both employees and civil population, for the month of April of each year, was as follows:

1905.....	39.29	1910.....	19.73
1906.....	39.06	1911.....	17.74
1907.....	40.97	1912.....	17.21
1908.....	20.04	1913.....	21.18
1909.....	16.77	1914.....	22.33

In segregating according to race, the annual average death rate per thousand from disease among employees was: For whites 3.27 and for blacks 5.94, giving a general average for disease of 5.52. For the same month during 1912, the annual average death rate per thousand from disease among whites was 3.74 and blacks 10.48, giving a general average of 8.77; and in 1913 from disease among whites 2.82 and blacks 5.39, giving a general average of 4.84.

Among employees during the month, deaths from the principal diseases were as follows: Lobar pneumonia, 2; organic disease of the

heart, 2; tuberculosis, 4; typhoid fever, 1; leaving 13 deaths from all other diseases and 5 deaths from external violence.

One case of smallpox was removed from Pacific Mail steamship *Newport* on April 16, 1914, and recovered. With this exception, no cases of yellow fever, smallpox, or plague originated on or were brought to the Isthmus during the month.

Very respectfully,

CHAS. F. MASON,
Chief Health Officer.

REPORT OF THE DEPARTMENT OF HEALTH, THE PANAMA CANAL, APRIL, 1914.

VITAL STATISTICS.

DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD.

Color.	Number of employees.	Deaths from—			Annual average per 1,000.		
		Disease.	Violence.	All causes.	Disease.	Violence.	All causes.
White.....	7,337	2	.....	2	3.27	.....	3.27
Colored.....	40,411	20	5	25	5.94	1.48	7.42
Total.....	47,748	22	5	27	5.52	1.26	6.78

DEATHS IN THE CITIES OF PANAMA AND COLON AND THE CANAL ZONE.

Place.	Population.	Deaths.	Annual average per 1,000.
Panama.....	47,172	129	32.82
Colon.....	20,232	37	21.95
Canal Zone.....	55,147	62	13.49
Total.....	122,551	228	22.33

NOTE.—The figures relating to the number of employees are compiled from the pay rolls for the preceding month.

The population and deaths as given for the cities of Panama and Colon and the Canal Zone include employees and civil population.

DEATHS BY AGE, COLOR, AND SEX.

Age.	White.			Colored.			Yellow.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under one year.....	6	3	9	42	25	67	1	.....	1	49	28	77
1 to 4 years.....	2	.....	2	8	8	16	.....	.....	.....	10	8	18
5 to 10 years.....	.....	.....	.....	2	1	3	.....	.....	.....	2	1	3
11 to 20 years.....	.....	2	2	1	4	5	.....	.....	.....	1	6	7
21 to 30 years.....	3	1	4	19	9	28	.....	.....	.....	22	10	32
31 to 40 years.....	4	3	7	18	9	27	2	.....	2	24	12	36
41 to 50 years.....	1	2	3	12	9	21	1	.....	1	14	11	25
51 to 60 years.....	2	.....	2	9	4	13	.....	.....	.....	11	4	15
61 to 70 years.....	.....	1	1	7	3	10	.....	.....	.....	7	4	11
71 to 80 years.....	.....	.....	.....	2	2	4	1	.....	1	1	2	3
Not stated.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	1
Total.....	18	12	30	119	74	193	5	.....	5	142	86	228

DEATHS BY NATIONALITY.

Nations.	Em- ployees.	Non- employees.	Total.
Peru.....		1	1
Antigua.....		1	1
Barbados.....	10	21	31
Belgium.....		1	1
China.....		5	5
Colombia.....		10	10
Dominica.....		1	1
France.....		2	2
Grenada.....		1	1
Guadeloupe.....	2		2
Haiti.....		1	1
India.....		1	1
Italy.....		1	1
Jamaica.....	7	44	51
Martinique.....	2	2	4
Mexico.....		1	1
Montserrat.....	1		1
Panama.....	1	97	98
Russia.....		1	1
Salvador.....		1	1
Spain.....		3	3
St. Vincent.....		1	1
Trinidad.....		2	2
United States.....	3	2	5
Unknown.....	1	1	2
Total.....	27	201	228

CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD.

Causes of death.	White.	Colored.	Total.
DISEASE.			
Angina pectoris.....		1	1
Cancer of buccal cavity.....		1	1
Cerebral hemorrhage.....		2	2
Chronic nephritis.....	1	2	3
Empyema.....		1	1
Encephalitis.....	1		1
Endocarditis.....		1	1
Gangrene of lungs.....		1	1
Lobar pneumonia.....		2	2
Organic disease of heart.....		2	2
Purulent infection and septicemia.....		1	1
Pyemia and septicemia, pneumococcic.....		1	1
Tuberculosis, disseminated.....		2	2
Tuberculosis of the lungs.....		2	2
Typhoid fever.....		1	1
VIOLENCE.			
Accidental drowning.....		4	4
Traumatism by fall.....		1	1
Total.....	2	25	27

DEATHS OF WHITE EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD.

[None from foreign countries.]
FROM THE UNITED STATES.

Name.	Division.	Time on Isthmus.	Age.	Cause of death.
Gray, Harry.....	Dredging division...	4 years.....	52	Chronic nephritis.
Sheehy, Dennis.....	Quartermaster department.	7 years.....	38	Encephalitis.

DEATHS OF WHITE WOMEN AND CHILDREN FROM THE UNITED STATES.

Name.	Time on Isthmus.	Age.	Cause of death.
Spamer, Helen.....	3½ years...	13	Suicide by poison.

DEATH RATE AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Cases.	Cause of death.	Number of deaths.	Annual average per 1,000.
White employees from the United States. }	5,363	Disease.....	2	4.48
		Violence.....		
		All causes.....	2	4.48
White women and children from the United States. }	3,902	Disease.....		
		Violence.....	1	3.08
		All causes.....	1	3.08
White employees and their families from the United States. }	9,265	Disease.....	2	2.58
		Violence.....	1	1.30
		All causes.....	3	3.88
Total number of Americans on the Canal Zone. }	10,888	Disease.....	2	2.20
		Violence.....	1	1.10
		All causes.....	3	3.30

CAUSES AND PLACES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION.

Disease.	Ancon Hospital.	Colon Hospital.	Panama.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>						
Typhoid fever.....	2		1			3
Malaria.....			2		1	3
Malaria fever, estivo-autumnal.....			1	1		2
Dysentery.....			2			2
Dysentery, unclassified.....	1					1
Purulent infection and septicemia...	2		1			3
Septicemia.....			2		1	3

CAUSES AND PLACES OF DEATHS OF EMPLOYEES AND CIVIL
POPULATION—Continued.

Disease.	Ancon Hospi- tal.	Colon Hospi- tal.	Pan- ama.	Colon.	Canal Zone.	Total.
<i>General diseases—Continued.</i>						
Pyemia and septicemia, pneumo- coccic.....	1					1
Tetanus.....			3			3
Pellagra.....			2			2
Beriberi.....			2			2
Tuberculosis of the lungs.....	3		14		1	18
Tuberculosis of the larynx.....			2			2
Disseminated tuberculosis.....	3					3
Rickets.....					1	1
Syphilis, tertiary.....	1					1
Syphilis, period not stated.....	1					1
Cancer and other malignant tumors of the buccal cavity.....	1					1
Cancer and other malignant tumors of other organs and of organs not specified.....	1		2			3
Exophthalmic goiter.....				1		1
Anemia, primary, pernicious.....			1			1
Anemia, secondary, cause not deter- mined.....					1	1
Alcoholism (acute or chronic).....	2					2
Alcoholism, acute.....			1			1
<i>Diseases of the nervous system and of the organs of special sense.</i>						
Encephalitis.....					1	1
Simple meningitis.....			2			2
Cerebrospinal fever.....	1					1
Cerebral hemorrhage, apoplexy.....	2	1	4		1	8
Other forms of mental alienation.....	1					1
Convulsions of infants (under 5 years of age.).....				1		1
<i>Diseases of the circulatory system.</i>						
Acute endocarditis.....			5			5
Malignant endocarditis.....		1				1
Organic disease of the heart.....	3		1		3	7
Angina pectoris.....					1	1
Arteriosclerosis.....	1					1
Embolism and thrombosis.....			1			1
<i>Diseases of the respiratory system.</i>						
Diseases of the larynx.....				1		1
Acute bronchitis.....			4	2		6
Chronic bronchitis.....				1		1
Broncho-pneumonia.....			2	2	2	6
Pneumonia (unqualified).....			5			5
Lobar pneumonia.....	4					4
Pleurisy.....			2			2
Empyema.....	1		1			2
Gangrene of the lungs.....	1					1
<i>Diseases of the digestive system.</i>						
Chronic gastritis.....				1		1
Diarrhea and enteritis (under 2 years).....	1		23	3	5	32
Colitis.....	1		3		1	5
Diarrhea and enteritis (2 years and over).....			1			1

CAUSES AND PLACES OF DEATHS OF EMPLOYEES AND CIVIL
POPULATION—Continued.

Disease.	Ancon Hospi- tal.	Colon Hospi- tal.	Pan- ama.	Colon.	Canal Zone.	Total.
<i>Diseases of the digestive system—Con.</i>						
Hernia, intestinal obstructions.....		1				1
Intestinal obstruction.....			2			2
Other diseases of the intestines.....				1		1
Cirrhosis of the liver.....			3			3
Other diseases of the liver.....			1			1
Simple peritonitis (nonpuerperal).....			1			1
<i>Nonvenereal diseases of the genito- urinary system and adnexa.</i>						
Acute nephritis.....			5			5
Bright's disease (chronic nephritis).....	2		6		1	9
Uterine tumor (noncancerous).....			1			1
Cysts and other tumors of the ovary.....			1			1
<i>The puerperal state.</i>						
Puerperal septicemia.....				1	1	2
Eclampsia.....					1	1
<i>Diseases of the skin and of the cellular tissue.</i>						
Gangrene.....			1			1
Pemphigus contagiosus.....			1			1
<i>Diseases of early infancy.</i>						
Congenital debility, icterus, and sclerema.....					1	1
Congenital debility.....			3	1	2	6
Malnutrition.....			5	2	5	12
Other causes peculiar to early infancy (including various consequences of labor).....					2	2
<i>Old age.</i>						
Senility.....				1		1
<i>Affections produced by external causes.</i>						
Suicide by poisoning.....	1					1
Suicide by firearms.....			1			1
Burns (conflagration excepted).....			1			1
Absorption of deleterious gases (con- flagration excepted).....					2	2
Accidental drowning.....					1	1
Traumatism by fall.....	1				4	4
Railroad traumatism.....					1	1
Electricity (lightning excepted).....					1	1
Homicides by firearms.....			1			1
Homicide by cutting or piercing in- struments.....			1			1
<i>Ill-defined diseases.</i>						
Cause of death not specified or ill- defined.....	1				3	4
Total.....	39	3	124	19	43	228
Stillbirths.....	1		21	8	5	35
Grand total.....	40	3	145	27	48	263

TABLE SHOWING DISCHARGES AND DEATHS IN THE HOSPITALS

Diseases.	Ancon Hospital.							
	Employees.				Nonemployees.			
	Dis- charged.		Died.		Dis- charged.		Died.	
	W.	B.	W.	B.	W.	B.	W.	B.
<i>General diseases.</i>								
Typhoid fever.....	5	3	1		7			1
Malaria fever:								
Estivo-autumnal.....	11	41			8	3		
Tertian.....	9	10			8			
Quartan.....		4			1			
Clinical.....	21	40			8	8		
Whooping cough.....					1	1		
Influenza.....	3				4			
Dysentery:								
Entamoebic.....	3							
Unclassified.....		6				1		1
Chicken pox.....		1			1	1		
Mumps.....		1			12			
Purulent infection and septicemia.....		1	1					1
Pyemia and septicemia, pneumococcic.....			1					
Pellagra.....		1				1		
Tuberculosis of the lungs.....	3	4	2	2				1
Acute miliary tuberculosis.....				1				
Abdominal tuberculosis.....						2		
Tuberculosis of bones and joints.....						1		
Tuberculosis of the lymph glands.....						1		
Disseminated tuberculosis.....			2			1		1
Syphilis:								
Primary.....	1	1						
Secondary.....	2	6			1			
Tertiary.....	4	5			7	4		2
Hereditary.....					1			
Period not stated.....	3	22			2	2		
Gonorrhea.....	9	19			7	1		
Gonorrheal bubo.....						1		
Gonorrheal orchitis and epididymitis.....	2					1		
Gonorrheal ophthalmia.....						2		
Soft chancre.....	7	19			1	1		
Adenitis, chancroidal.....		1			1			
Cancer and other malignant tumors:								
Buccal cavity.....		1	1					
Peritoneum, intestines, rectum.....					2		1	
Female genital organs.....					1	1		
Breast.....					1			
Skin.....		1			1			
Other organs and of organs not specified.....					3			1
Other tumors (tumors of the female genital organs excepted).....					3			
Acute articular rheumatism.....	1							
Exophthalmic goiter.....					1			
Other general diseases.....					1			
Alcoholism, acute or chronic.....							1	1
Alcoholism, acute.....	2				11			
Alcoholism, chronic.....					1			

TABLE SHOWING DISCHARGES AND DEATHS IN THE HOSPITALS

Diseases.	Ancon Hospital.							
	Employees.				Nonemployees.			
	Discharged.		Died.		Discharged.		Died.	
	W.	B.	W.	B.	W.	B.	W.	B.
<i>Diseases of the nervous system and of the organs of special sense.</i>								
Simple meningitis.....					1			
Cerebrospinal fever.....								1
Cerebral hemorrhage, apoplexy.....			1					1
Paralysis without specified cause.....		2						
Other forms of mental alienation.....		1			3	5		1
Dementia precox.....								
Epilepsy.....	1	1			3			
Convulsions (of infants under 5 years of age).....					1			
Hysteria.....					1	1		
Neuralgia.....	2							
Neuritis.....	3	1						
Other diseases of the nervous system.....	1	1				1		
Neurasthenia.....	2	2				5		
Diseases of the eyes and their annexa.....	5	15			6	7		
Diseases of the ears.....	1				8			
<i>Diseases of the circulatory system.</i>								
Acute endocarditis.....								
Organic diseases of the heart.....	1			1	1			2
Arteriosclerosis.....	1							1
Embolism and thrombosis.....					1			
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	3				1			
Hemorrhoids.....	4	3			3			
Varicocele.....	3							
Diseases of the lymphatic system (lymphangitis, etc.).....	1	2						
Lymphadenitis (nonvenereal).....		10			11	1		
<i>Diseases of the respiratory system.</i>								
Diseases of the nasal fossæ.....	10							
Adenoid vegetations.....					1			
Laryngitis.....					1			
Diseases of the thyroid body.....					2			
Acute bronchitis.....	10	18			5	2		
Chronic bronchitis.....					1			
Broncho-pneumonia.....		1						
Lobar pneumonia.....		13		2	1	2	1	1
Pleurisy.....	2	10			1			
Empyema.....				1	1	1		
Gangrene of the lungs.....				1				
Asthma.....	1	1			2	1		
Abscess of lungs.....		1						

OF THE PANAMA CANAL FOR THE MONTH OF APRIL, 1914—Contd.

Colon Hospital.								Total.							
Employees.				Nonemployees.				Employees.				Nonemployees.			
Dis-charged.		Died.		Dis-charged.		Died.		Dis-charged.		Died.		Dis-charged.		Died.	
W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
												1			
	1					1			1						1
									2						2
									1			3	5		1
	1			1					1			1	1		
									1			3			
												1			
												1	1		
									2						
									3						
									1				1		
									2				5		
	4								5	19		6	7		
									1			8			
	1		1						1		1				
									1			1			2
															1
												1			
									3			1			
									4	3		3			
									3						
									1	2					
1									1	10		11	1		
									10						
	1									1		1			
												1			
1	1			1					11	19		6	2		
												1			
					1					1		1	3	1	1
	1								2	11		1	1		
												1	1		
	1								1			2	1		
									1	2					
										1					

TABLE SHOWING DISCHARGES AND DEATHS IN THE HOSPITALS

Diseases.	Ancon Hospital.							
	Employees.				Nonemployees.			
	Discharged.		Died.		Discharged.		Died.	
	W.	B.	W.	B.	W.	B.	W.	B.
<i>Diseases of the digestive system.</i>								
Diseases of the mouth and annæa.....	1	1			1			
Diseases of the teeth and gums.....	2	1			1			
Stomatitis.....					1	1		
Diseases of the pharynx.....	10	7			27	5		
Pharyngitis.....	1				1			
Follicular tonsillitis.....	1	4			2			
Ulcer of the stomach.....	1				1			
Other diseases of the stomach (cancer excepted).....	1				2			
Acute gastritis.....					1			
Chronic gastritis.....	1				1			
Acute indigestion.....	1	4			2	4		
Diarrhea and enteritis (under 2 years).....								1
Colitis.....								1
Diarrhea and enteritis (2 years and over).....	1	1			3			
Colitis.....	1				1			
Ankylostomiasis.....		3				2		
Tæniasis.....	1							
Appendicitis and typhlitis.....	7							
Acute appendicitis.....	2	1			9			
Inguinal hernia.....	11	8			2			
Other hernias.....					1	1		
Intestinal obstruction.....								
Other diseases of the intestines.....	4	2			7	1		
Constipation.....	3	4						
Duodenal ulcer.....	1							
Cirrhosis of the liver.....	1				2			
Biliary calculi.....								
Other diseases of the liver.....	1	2			3	1		
Abscess of liver (unqualified).....					1			
Cholecystitis.....	1							
<i>Nonvenereal diseases of the genito-urinary system and annæa.</i>								
Acute nephritis.....					2	2		
Bright's disease (chronic nephritis).....		1		1	3	1		
Other diseases of the kidney and annex.....	3	2			1			
Pyelonephrosis.....		1			3	1		
Calculi of the urinary passages.....					2			
Diseases of the bladder.....					1			
Cystitis.....					3			
Diseases of the urethra, urinary abscess, etc.....	1	1			1			
Stricture of the urethra, nonvenereal.....	1	6						
Hypertrophy of prostate.....					1			
Nonvenereal diseases of the male genital organs.....	3	5			3	4		

OF THE PANAMA CANAL FOR THE MONTH OF APRIL, 1914—Contd.

Colon Hospital.								Total.							
Employees.				Nonemployees.				Employees.				Nonemployees.			
Dis-charged.		Died.		Dis-charged.		Died.		Dis-charged.		Died.		Dis-charged.		Died.	
W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
								1	1			1			
								2	1			1			
								10	7			27	5		
								1				1			
1	1			3	2			2	5			5	2		
								1				1			
								1				2			
1	1				1			1	1			1	1		
								1				1			
								1	4			2	4		
															1
															1
								1	1			3			
								1				1			
									3				2		
								1							
								7							
								2	1			9			
	1							11	9			2			
						1						1	1		
								4	2			7	1		1
	2							3	6						
								1							
1								1				2			
								1							
								1	2			3	1		
								1				1			
	1								2		1	2	2		
											3	1			
								3	2			1			
									1			3	1		
												2			
												1			
												3			
								1	1						
								1	6			1			
								3	5			3	4		

TABLE SHOWING DISCHARGES AND DEATHS IN THE HOSPITALS

Diseases.	Ancon Hospital.							
	Employees.				Nonemployees.			
	Discharged.		Died.		Discharged.		Died.	
	W.	B.	W.	B.	W.	B.	W.	B.
<i>Nonvenereal diseases of the genito-urinary system and annexa—Continued.</i>								
Hydrocele.....	1	1			1			
Uterine hemorrhage (nonpuerperal).....					1			
Uterine tumor (noncancerous).....					1			
Other diseases of the uterus.....	1				3	7		
Metritis.....					1			
Cysts and other tumors of the ovary.....					3	1		
Salpingitis and other diseases of the female genital organs.....	1	1				5		
Nonpuerperal diseases of the breast (cancer excepted).....					1	1		
<i>The puerperal state.</i>								
Normal labor.....					6	2		
Accidents of pregnancy.....		1			1	2		
Other accidents of labor.....	2	1			1			
Puerperal albuminuria and convulsions.....						1		
<i>Diseases of the skin and of the cellular tissue.</i>								
Furuncle.....	1	2			3			
Carbuncle.....	1							
Acute abscess.....	5	2			1			
Phlegmon and cellulitis.....	2	4			3			
Scabies.....	1	1						
Elephantiasis.....		1						
Ulcer of the skin.....		3						
Impetigo contagiosa.....						1		
Urticaria.....	1							
Ingrowing nail.....	4				1			
Other diseases of the skin and annexa.....	4	3			3			
<i>Diseases of the bones and of the organs of locomotion.</i>								
Diseases of the bones (tuberculosis excepted).....		2			2			
Mastoid abscess.....					1			
Periostitis.....								
Arthritis.....	2	3			3			
Other diseases of the organs of locomotion.....	5	8			4			
<i>Diseases of early infancy.</i>								
Newborn child.....					6	1		
Congenital debility, icterus, and sclerema.....					1			
Malnutrition.....						1		
Other causes peculiar to early infancy (including various consequences of labor).....					1			

OF THE PANAMA CANAL FOR THE MONTH OF APRIL, 1914—Contd.

Colon Hospital.								Total.							
Employees.				Nonemployees.				Employees.				Nonemployees.			
Dis-charged.		Died.		Dis-charged.		Died.		Dis-charged.		Died.		Dis-charged.		Died.	
W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
								1	1			1			
												1			
												1			
								1				3	7		
												1			
												3	1		
								1	1				5		
												1	1		
					2							6	4		
									1			1	2		
								2	1			1			
													1		
								1	2			3			
								1							
1	1							6	3			1			
								2	4			3			
								1	1						
									1						
									3						
													1		
								1							
								4				1			
	1							4	4			3			
									2			2			
									1			1			
	1							2	4			3			
	1							5	9			4			
					2							6	3		
												1			
													1		
												1			

TABLE SHOWING DISCHARGES AND DEATHS IN THE HOSPITALS

Diseases.	Ancon Hospital.							
	Employees.				Nonemployees.			
	Dis- charged.		Died.		Dis- charged.		Died.	
	W.	B.	W.	B.	W.	B.	W.	B.
<i>Affections produced by external causes.</i>								
Suicide by poisoning.....					1			
Poisoning by food.....	1	1	1		1			
Burns (conflagration excepted).....		2						
Traumatism by firearms.....	2	1						
Traumatism by cutting or piercing in- struments.....	1	17						
Traumatism by fall.....	2	27		1		6		
Traumatism in mines and quarries.....		5						
Traumatism by machines.....		9				1		
Traumatism by other crushings (vehi- cles, railroads, landslides, etc).....		5						
Railroad traumatism.....		6						
Dynamite traumatism.....		2						
Traumatism by landslides.....		1						
Injuries by animals.....						1		
Starvation.....						2		
Electricity (lightning excepted).....		1						
Fractures (cause not specified).....					3	5		
Dislocations.....								
Sprains.....					1	1		
Other external violence.....	58	90			10	4		
<i>Ill-defined diseases.</i>								
Cause of death not specified or ill- defined.....								1
Infections of undetermined origin.....	1							
No disease.....					10	5		
Total.....	291	522	1	16	316	128	3	19

CONSOLIDATED HOSPITAL REPORT.

Hospitals.	Remain- ing Apr. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Remain- ing Apr. 30.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
<i>Ancon Hospital.</i>												
Employees.....	156	332	260	534	1	16	291	521	....	1	124	328
Nonemployees..	133	84	329	140	2	13	315	122	1	2	144	87
Insane (emps)...	7	27	.....	1	.....	.....	.....	1	.....	.....	7	27
Insane (nons)...	26	246	1	20	1	6	1	5	1	5	24	250
Total.....	322	689	590	695	4	35	607	649	2	8	299	692
<i>Colon Hospital.</i>												
Employees.....	12	25	17	56	.....	1	20	47	5	7	4	26
Nonemployees..	.....	1	14	19	.....	2	6	9	1	7	7	2
Total.....	12	26	31	75	.....	3	26	56	6	14	11	28
<i>Palo Seco Leper Asylum.</i>												
Nonemployees..	4	42	.....	4	.....	.....	.....	.....	.....	1	4	45
<i>Grand total.</i>												
Employees.....	168	357	277	590	1	17	311	568	5	8	128	354
Nonemployees..	137	127	343	163	2	15	321	131	2	10	155	134
Insane (emps)...	7	27	.....	1	.....	.....	.....	1	.....	.....	7	27
Insane (nons)...	26	246	1	20	1	6	1	5	1	5	24	250
Total.....	338	757	621	774	4	38	633	705	8	23	314	765

Number of employees remaining in hospitals:

White.....	135
Colored.....	381
Total.....	516

CONSOLIDATED SICK CAMP REPORT.

Stations.	Remain- ing Apr. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Remain- ing Apr. 30.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Gamboa.....	5	1	12	.....	.....	.....	14	.....	.....	1	3
Porto Bello.....	1	23	.....	.....	1	21	.....	2	.....	.....
Toro Point.....	2	1	.....	.....	1	.....	1	1	.....	.....
Total.....	5	4	36	.....	.....	2	35	1	3	1	3

CONSOLIDATED REPORT OF EMPLOYEES SICK IN QUARTERS.

Stations.	Days excused for quarters.			New patients excused for quarters.		
	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....	2	24	26	1	14	15
Ancon.....	124	162	286	63	37	100
Balboa.....	57	11	68	29	6	35
Corozal.....	101	1	102	73	1	74
Pedro Miguel.....	18	-----	18	8	-----	8
Paraiso.....	42	-----	42	11	-----	11
Culebra.....	15	153	168	7	57	64
Empire.....	160	41	201	37	10	47
Gatun.....	67	34	101	22	18	40
Cristobal.....	169	400	569	60	79	139
Toro Point.....	3	19	22	3	5	8
Margarita Point.....	-----	5	5	-----	3	3
Total.....	758	850	1,608	314	230	544

CONSOLIDATED HOSPITALS, SICK CAMPS, AND SICK-IN-QUARTERS REPORT.

	Remain- ing Apr. 1.		Admitted.		Died.		Dis- charged.		Trans- ferred.		Remain- ing Apr. 30.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Hospitals.....	338	757	621	774	4	38	633	705	8	23	314	765
Sick camps.....	-----	5	4	36	-----	-----	2	35	1	3	1	3
Total....	338	762	625	810	4	38	635	740	9	26	315	768

	White.	Colored.	Total.
Total admissions to hospitals and sick camps.....	625	810	1,435
Number of employees sick in quarters.....	314	230	544
Total.....	939	1,040	1,979
Less number of patients transferred from sick camps to hospitals, and from hospitals to hospitals, whose admissions are duplicated in above figures.....	9	26	35
Net admissions to hospitals, sick camps and those sick in quarters.....	930	1,014	1,944
Net admissions of employees to hospitals and sick camps and those sick in quarters.....	585	810	1,395
Average per thousand of admissions of employees to hospitals and sick camps, and those sick in quarters.....	80	20	29

CONSOLIDATED DISPENSARY REPORT.

Stations.	Employees.			Nonemployees.			Total.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....	166	1,392	1,558	.....	.....	.....	166	1,392	1,558
Ancon.....	666	1,870	2, 36	332	334	666	998	2,204	3,202
Balboa.....	3,213	3,484	6,697	117	147	264	3,330	3,631	6,961
Corozal.....	1,519	1,616	3,135	4.0	34	484	1,969	1,610	3,619
Pedro Miguel.....	509	1,017	1,526	216	67	283	725	1,084	1,809
Paraiso.....	620	1,182	1,802	228	285	513	848	1,467	2,315
Culebra.....	557	1,450	2,007	242	127	769	799	1,977	2,776
Empire.....	1,077	1,337	2,414	498	427	925	1,575	1,764	3,339
Gamboa.....	65	391	456	.....	.....	.....	65	391	456
Gatun.....	691	1,438	2,129	493	450	943	1,184	1,838	3,072
Cristobal.....	808	2,078	2,886	466	302	768	1,274	2,380	3,654
Porto Bello.....	316	622	938	66	198	264	382	820	1,202
Toro Point.....	338	524	862	30	43	73	368	567	935
Margarita Point.....	38	253	291	.....	.....	.....	38	253	291
Total.....	10,583	18,654	29,237	3,138	2,814	5,952	13,721	21,468	35,189

AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS, SICK CAMPS, AND QUARTERS.

Hospitals.	White.	Colored.	Total.
Ancon Hospital.....	136.36	346.80	483.16
Colon Hospital.....	7.16	26.13	33.29
Total.....	143.52	372.93	516.45

	Sick camps.			Quarters.		
	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....	.....	.....	.....	0.07	0.80	0.87
Ancon.....	.....	.....	.....	4.13	5.40	9.53
Balboa.....	.....	.....	.....	1.90	.37	2.27
Corozal.....	.....	.....	.....	3.37	.03	3.40
Pedro Miguel.....	.....	.....	.....	.60	.....	.60
Paraiso.....	.....	.....	.....	1.40	.....	1.40
Culebra.....	.....	.....	.....	.50	5.10	5.60
Empire.....	.....	.....	.....	5.33	1.37	6.70
Gamboa.....	0.03	3.00	3.03	.....	.....	.....
Gatun.....	.....	.....	.....	2.23	1.13	3.36
Cristobal.....	.....	.....	.....	5.63	13.33	18.96
Porto Bello.....	.13	2.83	2.96	.....	.....	.....
Toro Point.....	.07	.03	.10	.10	.63	.73
Margarita Point.....	.....	.....	.....	.....	.17	.17
Total.....	.23	5.86	6.09	25.26	28.33	53.59

AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS, SICK CAMPS, AND QUARTERS—Continued.

	Hospitals.	Sick camps.	Quarters.	Totals.
Average number of employees constantly sick:				
White.....	143.52	0.23	25.26	169.01
Colored.....	372.93	5.86	28.33	407.12
Total.....	516.45	6.09	53.59	576.13
Average number of employees constantly sick per 1,000:				
White.....	19.56	.03	3.44	23.03
Colored.....	9.23	.15	.70	10.08
Total.....	10.82	.13	1.12	12.07

AVERAGE NUMBER OF DAYS' TREATMENT PER EMPLOYEE IN HOSPITALS, SICK CAMPS, AND QUARTERS.

Hospitals.	White.	Colored.	Total.
Ancon Hospital.....	12.21	16.52	15.01
Colon Hospital.....	9.40	9.32	9.35

	Sick camps.			Quarters.		
	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....				2.00	1.71	1.73
Ancon.....				1.97	4.38	2.86
Balboa.....				1.97	1.83	1.94
Corozal.....				1.38	1.00	1.38
Pedro Miguel.....				2.25		2.25
Paraiso.....				3.82		3.82
Culebra.....				2.14	2.68	2.63
Empire.....				4.32	4.10	4.28
Gamboa.....		9.79	9.79			
Gatun.....				3.05	1.90	2.53
Cristobal.....				2.82	5.06	4.09
Porto Bello.....	4.00	3.70	3.71			
Toro Point.....	1.00	1.00	1.00	1.00	3.80	2.75
Margarita Point.....					1.67	1.67

SUBSISTENCE AND OPERATING EXPENSES.

	Hospitals.	Sick camps.	Totals.
<i>Subsistence expenses.</i>			
Number of days' rations issued patients.....	31,894	815	32,709
Cost of rations issued to patients.....	\$7,807.65	\$169.28	\$7,976.93
Cost of subsistence per patient per day.....	\$0.244	\$0.207	\$0.244
<i>Operating expenses.</i>			
Number of days' relief furnished patients....	31,894	815	32,709
Cost of operation.....	\$41,071.79	\$283.50	\$41,355.29
Cost per capita per day.....	\$1.29	\$0.35	\$1.26
Cost of operation with amount received from outside patients deducted.....	\$28,517.63	\$274.50	\$28,792.13
Cost per capita per day with above deduction.....	\$0.89	\$0.34	\$0.88
Cost of dispensaries.....	\$7,944.51		

REPORT OF ANCON HOSPITAL.

Class.	Re-main- ing Mar. 31, 1914.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re-main- ing Apr. 30, 1914.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Panama Canal employees...	140	295	240	458	1	12	262	463	....	1	117	277
Panama Railroad employ- ees.....	16	37	20	76	....	4	29	58	....	....	7	51
Pay patients.....	121	76	307	114	2	7	296	105	1	1	129	77
Charity patients.....	12	8	22	26	....	6	19	17	....	....	1	15
Insane employees.....	7	27	....	1	....	....	....	1	....	....	7	27
Insane nonemployees.....	26	246	1	20	1	6	1	5	1	5	24	250
Total.....	322	689	590	695	4	35	607	649	2	8	299	692
Grand total.....	1,011		1,285		39		1,256		10		991	

Transfers:

2 to Colon Hospital (1 black, Panama Canal; 1 black, pay).¹

1 to Palo Seco Leper Asylum (1 black, charity).

5 from asylum to hospital (1 white, nonemployee; 3 black, nonemployees).

2 from hospital to asylum (1 white, pay; 1 black, pay).

	White.	Black.	Total.
Total number of employees died, discharged, and transferred.....	292	539	831
Total number of days' treatment for same since admission.....	3,567	8,907	12,474
Average number of days' treatment for each employee.....	12.21	16.52	15.01
Average number of employees constantly sick.....	136.36	346.80	483.16

Cost of subsistence per patient per day, \$0.2418.

¹ From asylum.

NATIONALITY.

Class.	Total number treated.	Americans.		Other na- tions.	
		W.	B.	W.	B.
Panama Canal employees.....	1,133	227	.....	153	753
Panama Railroad employees.....	149	26	.....	10	113
Pay patients.....	618	324	1	104	189
Charity patients.....	68	29	.....	5	34
Insane employees.....	35	3	.....	4	28
Insane nonemployees.....	293	6	.....	21	266
Total.....	2,296	615	1	297	1,383

Ancon Hospital, May 4, 1914.

WARD LABORATORY REPORT.

Blood examinations.....	1,159
Estivo-autumnal.....	64
Mixed.....	10
Quartan.....	3
Tertian.....	29
Differential counts.....	83
Hemoglobin estimations.....	209
Leucocyte counts.....	291
Red blood counts.....	11
Stool examinations.....	975
Ameba.....	1
Ascaris lumbricoides.....	41
Bismuth crystals.....	10
Ciliated monads.....	36
Entameba.....	4
Guaiac test.....	8
Pus and blood.....	140
Strongyloides.....	67
Tenia saginata (ova).....	1
Trichocephalus dispar.....	135
Uncinaria (ova).....	118
Urine examinations.....	1,970
Albumen.....	558
Bile.....	2
Casts.....	406
Epithelia.....	245
Guaiac tests.....	13
Hemin crystals.....	2
Indican.....	12
Pus and blood.....	547
Sugar (positive, 4).....	22
Sputum examinations.....	239
Positive for tubercle bacilli.....	37
Smear examinations.....	19
Fluid, cerebral spinal (positive meningococcus).....	1
Throat.....	1
Urethral.....	12
Vaginal (1 positive).....	6

ANCON HOSPITAL.

REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
Forearm.....	1	.....
Thigh.....	1	1
Digits, multiple.....	1	.....
Operations on bones:		
Osteotomy.....	1	.....
Excision of maxilla.....	1	1
Wiring of fractures, simple.....	8	.....
Wiring of fractures, compound.....	1	.....
Adenectomy:		
Cervical.....	1	.....
Inguinal, single.....	27	.....
Inguinal, double.....	5	.....
Femoral.....	4	.....
Herniotomy:		
Inguinal, single.....	15	.....
Inguinal, double.....	7	.....
Femoral.....	1	.....
Strangulated.....	1	.....
Genito-urinary tract:		
Nephrotomy.....	1	.....
Urethrotomy, internal.....	6	.....
Urethrotomy, external.....	4	.....
Varicocele, radical cure.....	2	.....
Hydrocele, single, radical cure.....	1	.....
Hydrocele, double, radical cure.....	1	.....
Orchidectomy.....	2	.....
Epididymotomy.....	12	.....
Amputation of scrotum.....	3	.....
Curettage uteri.....	6	.....
Perineoplasty.....	2	.....
Trachelorrhaphy.....	1	.....
	116	2
Obstetrical:		
Low forceps.....	2	.....
Perineorrhaphy.....	2	.....
Thorax:		
Thoracotomy.....	3	.....
Excision of breast and axilla.....	1	.....
Rectum:		
Hemorrhoids, radical cure.....	7	.....
Fistula in anus, excision of.....	2	.....
General:		
Thyroidectomy.....	1	.....
Varicose veins, excision of.....	6	.....
Perineorrhaphy.....	4	.....
Excision of surface neoplasms.....	2	.....
Plastic operation for effects of disease.....	1	.....
Laparotomy:		
Exploratory.....	2	.....
Appendectomy.....	19	.....
Appendectomy with local peritonitis.....	3	.....
Colostomy.....	2	1
Cholecystomy.....	1	.....
Abscess of liver, laparo-hepatotomy for.....	1	.....
Supravaginal hysterectomy.....	4	.....
Hysteromyomectomy.....	4	.....
Myomectomy.....	1	.....
Salpingo-oophorectomy.....	7	.....
Suspensio-uteri.....	3	.....

REPORT OF SURGICAL OPERATIONS—Continued.

	Number.	Died.
Laparotomy—Continued.		
Plastic operation for chronic pelvic peritonitis.....	3	.....
Major operations, various other.....	0	.....
Minor operations, various.....	120	.....
Bunions, bilateral, Mayo.....	5	.....
Bunions, single.....	1	.....
	323	3

REPORT OF EYE AND EAR DEPARTMENT.

Adenoidectomy.....	10
Bowman's dilatation lachrymal duct.....	2
Capsulectomy.....	1
Cataract extraction.....	1
Chalazion excision.....	1
Iridectomy.....	2
Mastoidectomy, simple.....	1
Pterygium excision.....	8
Pterygium transplantation.....	1
Resection, submucous, nasal septum.....	15
Tenotomy, external rectus.....	1
Tucking, external rectus.....	1
Tonsillectomy.....	20
Turbinectomy.....	3
	67
Various minor operations:	
Eye.....	17
Ear.....	6
Nose and throat.....	5
	28
Total.....	95
Total outside cases.....	877
Refractions.....	125

ANCON HOSPITAL—OUT-PATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Prescriptions.
Medical.....	340	259	28	345
Surgical.....	288	199	17	90
Eye and ear.....	877	327	20	368
Total.....	1,505	785	65	803

COLON HOSPITAL.

	Re- main- ing first of month.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- main- ing end of month.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Panama Canal employees	11	13	13	33	.....	.....	16	29	4	3	4	14
Panama Railroad employees	1	12	4	23	.....	1	4	18	1	4	.....	12
Pay (private)	.....	1	12	9	.....	1	6	5	1	4	5	.....
Pay (municipal)	.....	.....	.....	5	.....	1	.....	1	.....	2	.....	.....
Zone (charity)	.....	.....	2	5	.....	.....	3	.....	1	.....	2	1
Total	12	26	31	75	.....	3	26	56	6	14	11	28

Transferred to Ancon: 4 white, Panama Canal; 3 black, Panama Canal; 1 white, Panama Railroad; 4 black, Panama Railroad; 1 white, Pay; 4 black, Pay. Transferred to Santo Tomas: 2 black, Pay (municipal); 1 black, Zone. Total, 20.

	White.	Black.	Total.
Total number of employees died, discharged, or transferred	25	55	80
Total number of days' treatment for same since admission	235	513	748
Average number of days' treatment for each employee	9.40	9.32	9.35
Average number of employees constantly sick	7.16	26.13	33.30

Cost of subsistence per patient per day, 20 cents.

NATIONALITY.

	White Ameri- can.	White foreign.	Black.	Total.
Panama Canal employees	6	18	46	70
Panama Railroad employees	3	2	35	40
Pay (private)	4	8	10	22
Pay (municipal)	.....	.....	5	5
Zone (charity)	1	1	5	7
Total	14	29	101	144

LABORATORY REPORT.

Blood examinations	35
Estivo-autumnal	7
Tertian	3
Differential counts	5
Stool examinations	6
Amoeba	1
Urine examinations	5
Albumen and casts	1
Sputum examinations	6
Positive for tubercle bacilli	2

SURGICAL OPERATIONS.

Adenectomy:	
Axillary.....	1
Inguinal, single.....	1
Herniotomy:	
Inguinal, single.....	1
Genito-urinary tract:	
Orchidectomy.....	1
Circumcision.....	1
General:	
Plastic operation for severe injuries.....	2
Laparotomy:	
For intestinal obstruction ¹	1
Appendectomy with general peritonitis.....	1
Cholecystostomy.....	1
Minor operations under general anaesthesia.....	3

OPERATIONS EYE, EAR, NOSE, AND THROAT.

Tonsillectomy.....	5
Adenectomy.....	5
Minor operations.....	9
Outpatients treated.....	335
Refractions.....	18

REPORT OF PALO SECO LEPER ASYLUM.

Class.	Remaining first of month.		Admitted.		Transferred.		Remaining end of month.	
	W.	B.	W.	B.	W.	B.	W.	B.
Pay cases.....	2	29	0	12	0	0	2	31
Charity cases.....	2	13	0	22	0	31	2	14
	4	42	0	4	0	1	4	45

¹ From Santo Thomas Hospital.² 1 from Santo Thomas Hospital, 1 from Ancon Hospital.³ To Santo Thomas Hospital.

NATIONALITY.

Class.	Number treated.		Other nations.	
	White.	Black.	White.	Black.
Panama Canal employees.....	0	0	0	0
Panama R. R. employees.....	0	0	0	0
Pay cases.....	2	31	2	31
Charity cases.....	2	14	2	14
	4	45	4	45

Cost of subsistence, per patient, per day, \$0.30.

¹ Died, 1.

SANTO TOMAS HOSPITAL.

Class.	Remain- ing Apr. 1.	Ad- mitted.	Dis- charged.	Died.	Remain- ing Apr. 30.
Pay cases.....	43	105	111	1	36
Charity cases.....	319	625	591	44	309
Total.....	362	730	702	45	345

Average number of patients constantly sick	332
Total number of days' treatment	9,989
Average number of days' treatment per patient.....	.9
Cost of subsistence, per patient, per day.....	\$0.23

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Colored.	White.	Colored.
Pay cases.....	148			55	93
Charity cases.....	944			106	838
Total.....	1,092			161	931

DISPENSARY REPORT.

Class.	White.	Colored.	Total.
Natives.....	56	270	326
Foreigners.....	51	212	263
Total.....	107	482	589

DISEASES TREATED.

Typhoid fever.....	2	Gonorrhea.....	18
Malaria.....	69	Cancer and other malignant tumors	
Malaria fever, estivoautumnal.....	20	of the breast.....	7
Malaria fever, tertian.....	7	Acute articular rheumatism.....	10
Malaria fever, clinical.....	19	Anaemia, chlorosis.....	1
Diphtheria and croup.....	1	Alcoholism (acute or chronic).....	10
Influenza.....	3	Simple meningitis.....	1
Dysentery.....	1	Other forms of mental alienation...	9
Leprosy.....	3	Epilepsy.....	6
Erysipelas.....	1	Other diseases of the nervous system	7
Purulent infection and septicaemia.....	16	Diseases of the eyes and their annexa	8
Tetanus.....	1	Acute endocarditis.....	11
Pellagra.....	8	Organic diseases of the heart.....	1
Beri-beri.....	6	Arterio-sclerosis.....	7
Tuberculosis of the lungs.....	26	Diseases of the veins (varices, hem-	
Pott's disease.....	1	orrhoids, phlebitis, etc.).....	1
Syphilis.....	56	Hemorrhoids.....	3

Hemorrhage; other diseases of the circulatory system.....	1	Salpingitis and other diseases of the female genital organs.....	18
Laryngitis.....	1	Normal labor.....	63
Chronic bronchitis.....	15	Accidents of pregnancy.....	16
Lobar pneumonia.....	15	Abortion.....	7
Asthma.....	1	Gangrene.....	3
Diseases of the mouth and annexa..	2	Furuncle.....	1
Diarrhoea and enteritis.....	15	Acute abscess.....	11
Intestinal parasites.....	14	Other diseases of the skin and annexa.....	41
Appendicitis and typhlitis.....	6	Other diseases of the organs of locomotion.....	2
Hernia, intestinal obstructions.....	8	Newborn child.....	55
Cirrhosis of the liver.....	4	Congenital debility.....	3
Simple peritonitis (nonpuerperal) ..	4	Burns (conflagration excepted).....	5
Other diseases of the digestive system (cancer and tuberculosis excepted).....	6	Traumatism by other crushings (vehicles, railroads, landslides, etc.)..	27
Acute nephritis.....	12	Fractures (cause not specified).....	5
Diseases of the bladder.....	15	No disease.....	18
Diseases of the prostate.....	3		
Hydrocele.....	1	Total.....	747
Other diseases of the uterus.....	9		

SURGICAL OPERATIONS.

	Number.	Died.
Wiring of fractures, simple.....	1	.....
Wiring of fractures, compound.....	1	.....
Adenectomy, cervical.....	1	.....
Adenectomy, inguinal, single.....	1	.....
Herniotomy, inguinal, single.....	3	.....
Urethrotomy, internal.....	3	.....
Urethrotomy, external.....	4	.....
Epididymotomy.....	1	.....
Curetage uteri.....	10	.....
Perineoplasty.....	1	.....
Trachelorrhaphy.....	1	.....
Vaginal sections.....	5	.....
Excision of breast.....	1	.....
Hemorrhoids, radical cure.....	3	.....
Varicose veins, excision of.....	1	.....
Extensive injuries to soft parts, operation for.....	21	.....
Plastic operation for congenital defect.....	6	.....
Plastic operation for severe injuries.....	1	.....
Plastic operation for effects of disease.....	2	.....
Laparotomy for intestinal obstructions.....	1	1
Laparotomy, exploratory.....	4	1
Appendectomy.....	12	.....
Appendectomy, with general peritonitis.....	1	1
Panhysterectomy.....	6	.....
Supravaginal hysterectomy.....	1	.....
Hysteromyomectomy.....	2	.....
Salpingectomy, single.....	2	.....
Salpingectomy, double.....	6	.....
Salpingo-oophorectomy.....	17	.....
Ovarian cystectomy.....	1	.....
Suspensio-uteri.....	4	.....
Minor operations, various.....	6	.....
Total.....	130	3

REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations of—		Chemical analysis of—	
Blood cultures.....	19	Hospital dairy milk.....	1
Throat cultures.....	14	Mothers' milk.....	5
Urine cultures.....	80	Milk from private dairies in	
Stool cultures.....	56	Panama and Colon.....	16
Pus.....	4	Gallstone.....	1
Cultures from autopsies.....	5	Urine.....	1
Spinal fluid.....	5	Sugar cane.....	1
Knee fluid.....	2	Seeds of Isthmian plant <i>Cassia</i>	
Abdominal fluid.....	1	<i>occidentalis</i> L. (<i>Coffee senna</i>)..	1
Bile from gall bladder.....	1	Larvacide, to determine deter-	
Case in quarantine (plague sus-		rioration.....	1
pect).....	1	Surgical tissues and neoplasms re-	
Autogenic vaccines prepared.....	2	ported.....	27
Antityphoid vaccinations.....	6	Autopsies performed.....	32
Wassermann reactions.....	263	Bodies embalmed.....	13
Agglutination reactions.....	8	Animals examined or under obser-	
Pathological tissues prepared, par-		vation.....	11
affin.....	516	Leper suspects examined.....	2
Pathological tissues prepared, frozen		Rats examined.....	267
sections.....	6		

STATEMENT OF QUININE ISSUED.

	Kilos.
Quinine sulphate.....	21.00
Quinine sulphate tablets.....	11.00
Total.....	32.00
Pounds avoirdupois.....	70.55

SANITATION.

PANAMA.

During the month there were 129 deaths chargeable to the city from all causes. This is a slight decrease over the preceding month.

There were 3 cases of typhoid fever reported during the month; there was also 1 death from this disease. No scarlet fever or diphtheria was reported or found.

The sanitary districts in the city have been changed, and in place of five we now have four, and each sanitary inspector has a sufficient number of laborers under his immediate jurisdiction so as to enable him to make a house-to-house inspection of all buildings in his district within seven days and remove therefrom all boxes and articles of like nature that might afford a breeding or harboring place for rats. All unnecessary receptacles which might afford breeding places for mosquitoes are also removed.

As shown in the report, 157 buildings were condemned as being either a menace to public health or safety; 35 of these buildings were demolished. The vast majority of the buildings condemned have been repaired and placed in condition to meet the requirements of the sanitary department by the owners. There are a large number of buildings in this city which are heavily infested with rats, and the owners of such buildings are being notified as rapidly as possible to the effect that their buildings must comply with the sanitary and building rules and regulations or they will be demolished.

The garbage-collection service was organized so as to cover the congested districts of the city and remove therefrom all garbage twice daily, and all garbage removed was carted to the public dump and cremated.

The number of square yards of streets cleaned is given as 300,000. This is estimated, as accurate figures of the area of the city are not obtainable at the time this report is made. It is proposed to have all the streets swept twice a day, and on those streets where traffic is heavy the work is attended to by hand cartmen.

There being only one street sprinkler available, it has not been possible to cover all the streets in the city, but the main thoroughfares have been sprinkled regularly.

Samples of milk from all known dairies in the city were taken and sent to the board of health laboratory at Ancon for analysis. Two of the samples submitted were found to be below the legal requirements, and all milk from this source has been condemned for public sale until such time as the milk meets the requirements of the department. Permits for the selling of milk wholesale and retail have been granted most of the dairies in the city.

During the month of May permits will be issued to all establishments engaged in the bottling of aerated or carbonated waters and nonalcoholic beverages as they comply with the requirements of the department.

The vaccination of school children was started during the month and is well underway.

Following is a summary of the routine work accomplished by the health office of Panama:

Mosquito work:

Linear feet of ditches cleaned.....	66,056
Linear feet of new ditches dug.....	201
Cubic yards of earth used in filling.....	54
Larvacide used..... gallons.....	400
Crude oil used..... do.....	126

Garbage collection:

Loads of garbage from yards removed to dump and burned.....	1,089
Loads of garbage from cans removed to dump and burned.....	2,113

Buildings:

Plans for new buildings submitted to health officer and approved.....	30
Permits granted for repairs to old buildings.....	101
Buildings condemned.....	157
Buildings demolished.....	35

Street cleaning:

Square yards streets cleaned daily.....	300,000
Square yards streets sprinkled daily.....	100,000

Vaccination:

Persons vaccinated.....	245
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COLON.

[Including Cristobal, Mt. Hope, and Toro Point.]

General sanitation:

Square yards street cleaned.....	3,895,800
Square yards sprinkled.....	398,000
Square yards alleys maintained.....	674,875
Loads garbage, cubic yards.....	448
Private properties cleaned.....	89
Rats killed.....	68
Number of cans garbage, 65,160; amounting to cubic yards.....	2,031
Linear feet ditches maintained.....	4,869
Square yards vegetation removed.....	50,000
Square yards oiled.....	17,700
Receptacles treated (number).....	29,700
Number of mosquito breeding places destroyed.....	116
Number of fly breeding places destroyed.....	169
Buildings inspected.....	3,945
Number of notices served and nuisances abated.....	227

(Colon and Cristobal garbage disposed of at Ninth Street dump, Colon.)

Buildings:

Number of plans approved.....	2
Number of permits to repair issued.....	58
Number of permits to occupy issued.....	2
Number of temporary permits to occupy issued.....	0

Sewers (reported by division of municipal engineers):

New connections made during the month.....	3
Total connections made to date.....	1,142
Outstanding permits.....	66

CRISTOBAL.

Sanitation:

Square yards pools oiled.....	3,100
Water containers treated.....	4,200
Mosquitoes killed in barracks (Anoph., 92; Culex, 624).....	716
Mosquito breeding places destroyed.....	11
Fly breeding places destroyed.....	23

MOUNT HOPE.

Sanitation:

Square yards oiled.....	54,550
Receptacles treated.....	24,640
Mosquito breeding places destroyed.....	529
Mosquitoes killed in outfit cars (Anoph., 11; Culex, 358).....	369
For second division—	
Number of cubic yards ditches constructed (open).....	417
Linear yards ditches maintained (open).....	12,125
Mount Hope cemetery maintained.....	0

TORO POINT.

Sanitation:

Square oiled.....	2,750
Mosquitoes killed (Anoph., 112; Culex, 79).....	191
Pit closets oiled.....	12
Linear yards ditches maintained (open).....	1,940
Mosquito breeding places destroyed.....	15
Doses quinine tonic distributed.....	1,265

CANAL ZONE.

There has been an increase in the number of anopheles caught during the month, ascribable in part to increase of breeding with the onset of the rainy season and in part to active work at hand catching. The rainfall for April was 3.37 inches, as compared with 0.36 inch for March.

The banks of that part of Miraflores Lake adjacent to Pedro Miguel are being cut at an angle of three-fourths on 1, from the 55.5-foot level to that of 53 feet, in the hope that a depth of water and an amount of wave action sufficient to prevent mosquito breeding may be obtained, and much labor and material at present expended on treatment of the lake with oil and larvacide thus be saved.

A project for the permanent lining of about 19,000 feet of ditching in or about Gatun, 3,365 feet at Paraiso, 8,000 feet at Pedro Miguel, and 10,470 feet at Corozal is now awaiting executive approval, and work will be begun if this is received, although, because of the increasing frequency of rain now, it is not expected that the work can be completed this year.

The following is a summary of sanitary work performed and material expended during the month:

Work requests on quartermaster's department:

Grass cutting.....	2
Screening.....	14
Miscellaneous.....	18

Work requests on engineering department.....	24
Work requests on other departments.....	5

Notices served to abate nuisances.....	79
Arrests for violation of sanitary regulations.....	4
Convictions.....	4
Building permits approved.....	8
Inspections of closets.....	3,059
Inspections of stores.....	297
Inspections of restaurants.....	80
Inspections of shops.....	198
Garbage cans emptied.....	166,650
Closets disinfected.....	6,566
Houses disinfected.....	4
Rat traps used daily.....	211
Adult anopheles destroyed in houses.....	7,204
Adult culices destroyed in houses.....	11,278
Containers found with stegomyia larvæ.....	7
Larvacide used..... gallons..	5,969
Crude oil used..... do.....	22,491
Rats destroyed.....	545

QUARANTINE SERVICE.

One case of smallpox was removed from Pacific Mail Steamship *Newport* on April 16, 1914.

The plague situation on the west coast shows no apparent improvement. Heretofore, from Valparaiso south has been considered fairly clean. It is noted that a death from plague occurred at Santiago, Chile, slightly south of Valparaiso, on April 14, 1914, and one on April 15, 1914.

The plague situation in Habana, Cuba, shows no apparent improvement, but, on the other hand, seems to be on the increase. The total number of cases in Habana up to April 23, 1914, was 13. One case has also occurred at Artemisa, 35 miles west of Habana. The total number of cases notified for Cuba, as noted on the last bill received, is 16.

A case of plague was also reported at Caracas, Venezuela, on April 12, 1914.

QUARANTINE TRANSACTIONS AT THE PORTS OF ANCON AND PANAMA.

Vessels inspected and passed.....	14
Vessels inspected and held in quarantine.....	12
Total vessels inspected.....	26
Vessels fumigated on arrival.....	12
Vessels fumigated on departure.....	0
Total vessels fumigated.....	12
Crew examined.....	2,339
Passengers from foreign ports examined and landed:	
Cabin.....	449
Steerage.....	142
	591
Total persons examined.....	2,930
Persons vaccinated at ports of arrival because of compulsory vaccination law.....	239
Persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	656
Total persons vaccinated.....	895
Persons held in quarantine at the detention house to complete period of incubation for fever or plague.....	157
Persons held in quarantine on board vessels to complete period of incubation of yellow fever or plague.....	1,469
Total persons held under observation.....	1,626

Persons embarked for foreign ports:

Cabin.....	364	
Steerage.....	156	
		520
Persons arriving from coast towns in small launches and sailing craft.....	2,550	
Persons sailing for coast towns in small launches and sailing craft.....	2,197	
		4,747
Bills of health issued.....		26
Certificates issued to outgoing passengers.....		42
Certificates refused on account of trachoma.....		2
Persons recommended for deportation.....		0
Total persons landed.....	3,141	
Total persons sailing.....	2,717	
Apparent increase for the month.....		424

QUARANTINE TRANSACTIONS AT THE PORTS OF COLON AND CRISTOBAL.

Vessels inspected and passed.....	97	
Vessels held in quarantine.....	1	
Total vessels inspected.....		98
Pieces of baggage handled and stored.....	286	
Crew inspected.....	9,133	
Passengers inspected.....	4,968	
Total persons inspected.....		14,101
Persons vaccinated in port on arrival.....	629	
Persons vaccinated in ports of departure or en route.....	680	
Total persons vaccinated.....		1,309
Persons detained in quarantine to complete period of incubation for yellow fever and plague.....	267	
Persons detained on vessels.....	320	
Total persons held under observation.....		587
Total persons landed from foreign ports:		
Cabin.....	1,323	
Steerage.....	1,639	
		2,962
Total persons embarked for foreign ports:		
Cabin.....	2,257	
Steerage.....	2,193	
		4,450
Persons in transit.....		1,512
Persons from coast towns (inspected).....	494	
Persons from coast towns (not inspected).....	381	
Persons leaving Colon for coast towns.....	342	
Persons landed during month:		
For immigration report.....	3,596	
For Pacific ports.....	241	
		3,837
Bills of health issued.....	13	
Bills of health visced.....	31	
Persons recommended for deportation.....	5	
Certificates issued to outgoing passengers.....	4	
Persons refused certificates on account of trachoma.....	2	
Total persons landed.....	3,837	
Less number for Pacific ports.....	241	
Total persons sailing.....	3,596	
	4,792	
Apparent decrease for month.....		1,196

CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF ANCON AND PANAMA AND COLON AND CRISTOBAL.

Vessels inspected and passed.....	111	
Vessels held in quarantine.....	13	
Total vessels entered.....		124
Vessels fumigated on arrival.....	12	
Vessels fumigated on departure.....	0	
Total vessels fumigated.....		12

Pieces of baggage handled and stored.....	286	
Crew examined.....	11,472	
Passengers examined.....	5,559	
Total persons examined.....		17,081
Persons vaccinated at ports of arrival because of compulsory vaccination law.....	868	
Persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	1,336	
Total persons vaccinated.....		2,204
Persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	424	
Persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	1,789	
Total persons held under observation.....		2,213
Total persons landed from foreign ports:		
Cabin.....	1,772	
Steerage.....	1,781	
		3,553
Total persons embarked for foreign ports:		
Cabin.....	2,621	
Steerage.....	2,349	
		4,970
Total persons arriving from coast towns on small launches and sailing craft.....	3,425	
Total persons sailing for coast towns on small launches and sailing craft.....	2,539	
Apparent increase for month from coast towns.....		886
Apparent decrease for month from foreign ports:		
Cabin (decrease).....	849	
Steerage (decrease).....	568	
		1,417
Immigrants recommended for deportation.....	5	
Certificates issued to outgoing passengers.....	46	
Persons refused certificates on account of trachoma.....	4	
Bills of health issued or vised.....	70	
Total persons landed.....	6,978	
Less number for Pacific ports.....	241	
	6,737	
Total persons sailing.....	7,509	
Total apparent decrease for month.....	772	

IMMIGRATION REPORT FOR COLON.

From—	Cabin.	Steerage.
Europe.....	36	35
United States.....	556	37
Jamaica and West Indies.....	193	1,161
Venezuela.....	31	4
Colombia.....	88	93
Cuba.....	64	43
Guatemala.....	22	72
Costa Rica.....	180	106
Bocas del Toro.....	112	382
Coast towns.....		381
Total.....	1,282	2,314
Cabin and steerage.....		3,596
Men.....	2,257	
Women.....	685	
Children.....	273	
Unclassified.....	381	
		3,596

QUARANTINE—BOCAS DEL TORO.

	Number.
Vessels inspected and passed.....	37
Crew inspected and passed.....	1,650
Passengers inspected and passed.....	1,300
Passengers, in transit, inspected and passed.....	424
Persons held to complete period of incubation of yellow fever.....	7

No quarantinable disease has appeared in this port, and the health conditions of the port and surrounding territory are good. •

PERSONNEL REPORT.

	Paid in United States currency.	Paid in Panama currency.	Total.
Chief health office.....	11	5	16
Property division.....	3	5	8
Quarantine division.....	7	30	37
Health office, Panama.....	10	137	147
Health office, Colon.....	9	107	116
Ancon Hospital.....	129	368	497
Colon Hospital.....	9	23	32
Santo Tomas Hospital.....	6		6
Palo Seco Leper Asylum.....	2	14	16
Zone sanitation.....	10	120	130
Hospital farm.....	1	46	47
DISPENSARIES.			
Ancon.....	2	2	4
Balboa.....	4	2	6
Corozal.....	3	2	5
Cristobal.....	3	3	6
Culebra.....	3	2	5
Empire.....	4	2	6
Gatun.....	3	2	5
Margarita Point.....	1		1
Naos Island.....	1	1	2
Paraiso.....	2	2	4
Pedro Miguel.....	2	1	3
Porto Bello.....	1	2	3
Toro Point.....	1	1	2
Total.....	227	877	1,104

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